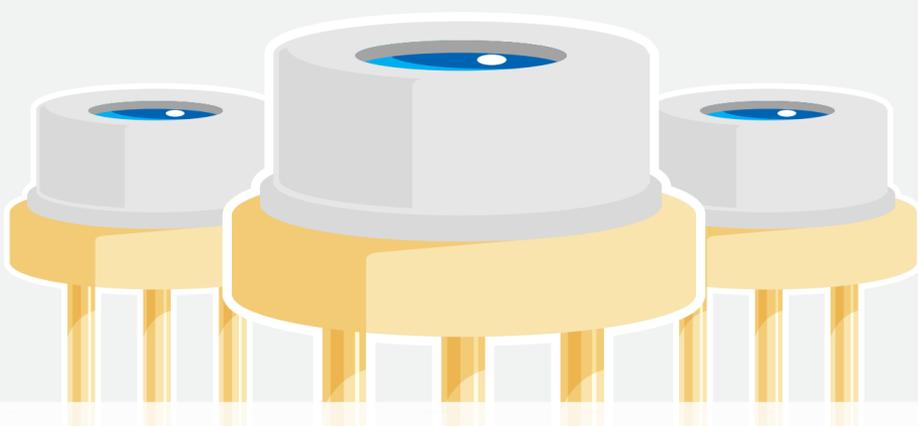




## Color fidelity and laser phosphor illumination

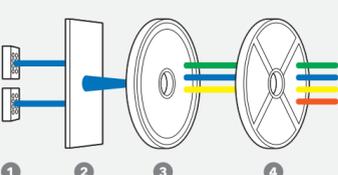
Laser phosphor is a solid-state, lampless projection illumination platform that uses blue laser diodes as the primary light source. Offering a long life, minimal maintenance and a low cost of operation, laser phosphor projectors are extremely popular in the ProAV industry.



Christie BoldColor+ technology creates the color balance needed to accurately reproduce colorful images, without sacrificing brightness.

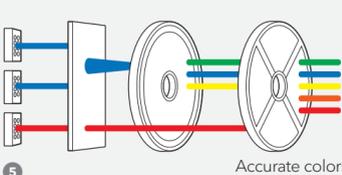
How do we do it? We use blue and red laser diodes as well as a patented optical chamber, video processing color optimization algorithms, and specialized software to produce enhanced color brightness and saturation. What's the result? More lifelike visuals when compared to typical laser phosphor projectors.

### Typical laser phosphor illumination



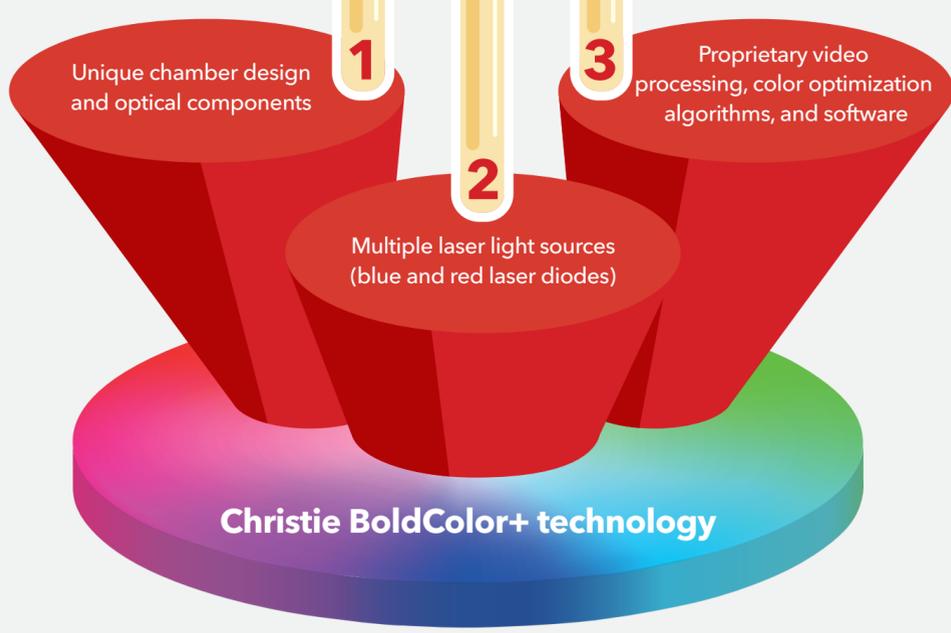
- 1 Blue laser diode banks
- 2 Focus lens
- 3 Phosphor wheel
- 4 Color wheel

### Laser phosphor illumination with BoldColor+ technology



- 5 Red laser diode bank

Accurate colors  
Full brightness



## Color fidelity shootout

Christie BoldColor+™ technology equipped projector vs. a typical 1DLP® laser phosphor projector.

### Christie BoldColor+ technology



Accurate color reproduction  
Accurate detail in white and darks  
Looks like original content

### Typical laser phosphor projector



Oversaturated colors – green is boosted  
Greens have a more yellow hue  
Loss of detail in whites and darks  
Modified original content – can seem appealing



Accurate color reproduction  
Full brightness and good whites  
Accurate detail in whites and darks



Yellowish reds and greens  
Loss of detail in whites and darks



Accurate color reproduction  
Color balance is maintained  
Full detail in highlights and darks



Yellowish greens  
Boosted blue and greens – unnatural  
Loss of detail in highlights and darks



Accurate color reproduction  
Great skin tones  
Beautiful color balance



Yellowish reds and greens  
Boosted greens  
Skin tones unnatural

Christie® projectors equipped with BoldColor+ technology utilize a next-generation color wheel and advanced electronics, enabling them to produce higher CLO (Color Light Output) than typical laser phosphor projectors.

With BoldColor+ technology's increased color fidelity, superior color balance and higher CLO, you get more vibrant and true-to-life visuals.

## Comparing laser phosphor projectors?

Be aware of these six color manipulations that distort content to gain brightness.



Oversaturated greens



Whites that appear yellowish



Crushed whites



Reds that appear more orange



Crushed blacks



One color appearing much stronger/more saturated than the others

Need help choosing a projector? [Contact us](#) today.

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